

CENTRAL INTELLIGENCE AGENCY

REPORT

INFORMATION REPORT

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COUNTRY Germany (Russian Zone)

SUBJECT Decimeter Communications

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information on decimeter communications work in the

Russian zone

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GERMANY (RUSSIAN ZONE)

ELECTRONICS

Decimeter Communications

1. Cost of RDS trucks

- (a) RDS-1 - ca 125,000 DM
- RDS-2 - ca 153,000 DM
- RDS-3 - ca 110,000 DM
- RDS-4 - ca 100,000 DM

- (b) Deliveries have been made to the Russians of the following

26 - RDS-1 *trucks*
 4 - RDS-2
 4 - RDS-3
 8 - RDS-4

50X1-HUM

2. The Russians have now been working for some ^{time} ~~while~~ in BERLIN, POTSDAM and DÄNLSBERG with the 26 RDS-1 trucks and the 8 RDS-4 trucks which have been delivered. They have experienced considerable difficulties with the apparatus and there has been a shortage of components; especially because they refuse the help of German technicians.

3. Besides the decimeter multi-channel link between BERLIN (Lichterfelder - telegraph office) - STULZE (Kr. HUCKENWALDE) - COLM (Kr. OSCHATZ) - DRESDEN (HEILIGENHAUSEN), a link from East BERLIN via the West Sectors to DOBERITZ is planned.

50X1-HUM

5. Modulation of the carrier wave

There are three means of modulating the carrier wave.

(a) By the control channel (Dienst Kanal), Frequency 70 KHz band width 0.3-2.2 KHz is speech modulated and serves simultaneously as control and gauge frequency (Pegelfrequenz)

(b) By the ME-8 speech-carrier frequencies (6,9,12,15,60 KHz)

(c) With frequencies from the FT-3, thus allowing three teleprinters to be used simultaneously on one ME-8 channel.

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-2-

Channel 1 697 Hz
Channel 2 1429 Hz
Channel 3 2153 Hz

Channel width 360 Hz

Sendepiegel zu Z = 600 Ohm = -1.35 Np.

6. The PFZ (Post-u Fernmelde-Zentralamt) plans to replace the long distance telephone cable through the West Sectors of BERLIN with decimeter communication. Firstly a connection with NAUEN, DALLGOW and DOBERITZ by cable is to be made to the "Schnellamt" Wilhelmstr. 66. There are still difficulties to be overcome in constructing this decimeter link, at both ends (NAUEN Wilhelmstr.) there are no high buildings which can be used for a radio mast. The decimeter sets (RVG 902/C and RVG 903) should already have been released by the Russians. The link will at first be for 16 telephone channels, later this will probably be increased to 64. PFZ technicians HERTER, FRIEDRICH and KOY among others will be responsible for this project. Work on the decimeter link (8-16 channels) from BERLIN (Lichtenberg Russian telegraph office) to DRESDEN will shortly be begun.

7. At the end of June 1950 the Sachsenwerk RADEBERG had supplied (ordered by KARLTSCH) four complete decimeter multi-channel telephone communication sets consisting of:

<u>RVG 902 C</u> <u>Stations</u>	<u>ME-8</u>	<u>Diesel</u> <u>Generators</u>	<u>* End</u> <u>Stations</u>	<u>* Relay</u> <u>Stations</u>
1. 16 lines	4	10	2	4
2. 19 lines	4	16	2	5
3. 22 lines	4	18	2	6
4. 34 lines	4	20	2	10
91	16	64	8	25

* Equipped with one reserve set each.

Suitable spare parts, testing and measuring apparatus have also been supplied.

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